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DATE MAILED: 10/18/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/911,614	07/25/2001	Takeshi Kouno	520.40206X00	3460	
20457	7 7590 10/18/2004		EXAMINER		
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800			FREAY, CHAI	FREAY, CHARLES GRANT	
			ART UNIT	PAPER NUMBER	
ARLINGTO	N, VA 22209-9889	3746			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/911,614	KOUNO ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Charles G Freay	3746				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	ith the correspondence ac	Idress			
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statuted the period for reply will by statuted the period for reply will be statuted to reply will be set or extended period for reply will	.136(a). In no event, however, may a s ply within the statutory minimum of thin I will apply and will expire SIX (6) MON te. cause the application to become A	reply be timely filed ty (30) days will be considered time ITHS from the mailing date of this of BANDONED (35 U.S.C. § 133).	ly. :ommunication.			
Status						
1)⊠ Responsive to communication(s) filed on 16.	July 2004.					
	is action is non-final.					
3) Since this application is in condition for allows						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D), 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>5-11 and 15-17</u> is/are pending in the	e application.					
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>5-10 and 15</u> is/are rejected.						
7)⊠ Claim(s) <u>11,16 and 17</u> is/are objected to.		,				
8) Claim(s) are subject to restriction and/	or election requirement.	\ \				
Application Papers						
9)☐ The specification is objected to by the Examin						
10)⊠ The drawing(s) filed on 16 July 2004 is/are: a						
Applicant may not request that any objection to the	- · ·					
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the E	examiner. Note the attache	d Office Action or form P	10-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 		3 119(a)-(d) or (f).				
2. ☐ Certified copies of the priority documen		nnlication No				
3. Copies of the certified copies of the prior	*		Stage			
application from the International Burea						
* See the attached detailed Office action for a lis	•	received.				
	·					
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		s)/Mail Date nformal Patent Application (PT0	O-152)			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	6) Other:	• • • • • • • • • • • • • • • • • • • •	J . 32,			

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DETAILED ACTION

This office action is in response to the amendment received July 16, 2004. In making the below rejections the examiner has considered and addressed each of the applicant's arguments. The examiner notes that the previous examiner, Mr. Gray, has left the office and therefore the current examiner has assumed prosecution of the application.

Drawings

The drawings were received on July 16, 2004. These drawings are approved.

Response to Arguments

Applicant's arguments, see especially the paragraph spanning pages 8 and 9, filed July 16, 2004, with respect to the rejection(s)of claim(s) 5-9, 15 and 17 under Terwilliger et al have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Japanese reference (8-319973, cited in an information disclosure statement).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5-10 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by JP ('973).

JP ('973) discloses a compressor in Figs. 1 and 2 having a compression chamber defined by a cylinder (4) and a piston (9), an end plate (5) having a conical valve seat (17) with a cylindrical portion immediately adjacent to the compression chamber, a bore (19), a valve (16) having a tapered portion (16a) and a flat portion (unnumbered). There is a retainer (post 20 and the plate attached to the post 20) inserted within the bore. The retainer plate has openings in it. There is a spring (18) which forms a conical section.

Allowable Subject Matter

Claims 11, 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With regards to claims 16 and 17 the examiner notes that the previous examiner stated with regard to Terwilliger et al that because the reference mentioned that the tapered valve surface could be radiused claim 16 was found obvious. The current examiner disagrees. Claim 16 sets forth a conical portion and a curved portion. The teaching of Terwilliger et al would result in a valve shape similar to that shown in Fig. 8 of JP ('973) and not a tapered valve having a conical and a curved portion as claimed.

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The examiner notes that if the claims were amended so that the retainer was completely inserted into the bore of the endplate then the claims would be favorably considered.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles G Freay whose telephone number is 703-308-0639, or (571) 272-4827 after November 17, 2004. The examiner can normally be reached on Monday through Friday 8:30 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 703-306-2772. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

£harlès G Freay Primary Examine Art Unit 3746

CGF October 15, 2004